

Abstract

One or more strings of decorative lights are supplied with power by converting a standard residential electrical voltage to a low-voltage, and supplying the low-voltage to at least one pair of parallel conductors having multiple decorative lights connected to the conductors along the lengths thereof, each of the lights, or groups of the lights, being connected in parallel across the conductors. A repair device for fixing a malfunctioning shunt across a failed filament in a light bulb in a group of series-connected miniature decorative bulbs includes a high-voltage pulse generator producing one or more pulses of a magnitude greater than the standard AC power line voltage. A connector receives the pulses from the pulse generator and supplies them to the group of series-connected miniature decorative bulbs. The pulse generator may be a piezoelectric pulse generator, a battery-powered electronic pulse generator, and/or an AC-powered electrical pulse generator.